

ABSTRACT OF THE DISCLOSURE

A process for producing a mutagenized *Sporidiobolus ruineniae* strain having a Q10 productivity of greater than 1.38 mg of Q10/g of dry biomass, wherein

(a) a *Sporidiobolus ruineniae* strain is subjected to genetic manipulation by mutagenesis, and

(b) the mutagenized *Sporidiobolus ruineniae* strain is subjected to a selection where the mutagenized *Sporidiobolus ruineniae* strain is cultivated under conditions which inhibit growth of the *Sporidiobolus ruineniae* strain employed in (a), the conditions being chosen so that the mutagenized strain overcomes the growth inhibition through a Q10 production which is increased by comparison with the *Sporidiobolus ruineniae* strain employed in (a), grows in a fermentation medium and

(c) is isolated from the fermentation medium.